

## PROFESSOR PEARSON ARRIVES IN ST. LOUIS

Head of English Department as  
Far as Missouri on Nation  
Wide Trip to Tell of Institute  
Doings

### INSPECTS DAYTON PLANT

(Special to The Tech)  
CINCINNATI, Ohio, August 6.—Professor Henry G. Pearson, head of the department of English at the Institute, addressed the local branch of the Technology Clubs Associated here tonight on the activity of the Institute at Cambridge and the Alumni throughout the United States, particularly at Washington where the Alumni bureau has been putting men in line for war service with Uncle Sam. Professor Pearson presented pictures of the work of the class of 1918 on the drill field besides views of the ground school at Cambridge and the war school for naval cadets.

Professor Pearson stayed at the Hotel Senter and intended to leave for Indianapolis tomorrow morning. He arrived from Dayton this morning. While in Dayton Professor Pearson said he visited the Platt Iron Works, where work is being rushed for the manufacture of machinery for turning out a new sharp shell for the warring armies.

INDIANAPOLIS, Ind., August 8.—H. G. Pearson, professor of English at the Institute arrived here this morning

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## NOT ALL HARD WORK

Machias Men Have Time For  
Recreation Now and Then

### (Special to The Tech)

CAMP CUNNINGHAM, Technology, Maine, Aug. 5.—Although many of the Alumni have been inclined to think that the Sophomore campers at Technology, Maine, have been overburdened with an intensive military program it appears that they find time to obtain some of the varied pleasures in life. Yesterday afternoon Company A, the crack company, journeyed to East Machias where a dance was given in their honor by the young ladies of the town in return for the exhibition drills given by the company.

Next Thursday Machias will entertain Company A with a supper after this popular troop has given the inhabitants an exhibition drill. No dance will be given this time because, as one of the officers stated, "it takes all the 'pep' out of the fellows so that they are no good for 'Applied' the next day."

Company A has now had over six weeks' training in close and extended order, marching, map sketching, target practice, military surveying, and dismounted artillery which is given under the direction of Captain A. G. Bland, of the Canadian Royal Field Artillery. Some military engineering has also been done in the way of road repairing, the building of culverts and ditches and the construction of trench details. A large derrick capable of lifting a ton with ease is one of the recent additions to the many accomplishments of Company A.

The work at the camp is divided into two shifts. While Company A takes military work Company B spends its time with the academic work. A model village has been constructed on a small scale representing a section of the French front near Ypres, marked out in such a scale that a model gun with a Winchester mounted on it can be used exactly as in actual practice. Direct and indirect laying is used and the gun can be so accurately handled by a dial plate and director that a match can be hit easily at a map range of 4,000 yards.

## President Maclaurin Receives Draft Rules For College Men

Information to the following effect has been received by President Maclaurin from the office of the Provost Marshal General in answer to his inquiries. In order to claim a discharge under the original jurisdiction of a district board, the claimant must show that he is engaged in one of the INDUSTRIES, including agriculture, upon which that jurisdiction is based. STUDENTS IN TECHNICAL SCHOOLS AND COLLEGES can not be considered as engaged in such INDUSTRIES and therefore there is no statutory authority for granting discharges in their case under the provision of Section 44 of the Regulations for Local and District Boards. Until a drafted student has been fully accepted for service it is impossible to say what can lawfully be done with him. After he has been accepted he may make application to be detailed for service in a R. O. T. corps at the Institute or elsewhere. THIS APPLICATION SHOULD BE MADE TO HIS COMMANDING OFFICER.

Application may be made to the Registrar of the Institute for a certificate regarding the standing of a student, and this certificate should be enclosed in the application to the commanding officer.

### FAVOR CHANGES IN TRAINING

Plattsburg Instructors Would Adopt  
Part of British Method

PLATTSBURG, N. Y., Aug. 5.—Recommendations of changes in the future training of reserve officers will be made to the War Department by Plattsburg instructors. Many of the officers favor the adoption of much of the British method. Instead of a series of officers' training camps, training depots would be established where men undergoing instruction might remain until considered competent to be commissioned. The length of instruction would depend upon the individual capacity of the candidate.

It has been found in the present camps that a large number of men would make good officers with more training. Others have been found who could have been sent into the army after only a few weeks of training. By creating continuous officers' training schools, where students advance according to their capacities, it is thought a larger number of satisfactory officers would be procured than by the present method. It would not then be necessary to eliminate men who might make good officers with longer training.

Bishop William Lawrence of Massachusetts spoke at the morning service at the camp Young Men's Christian Association today.

### FORMER EDITOR COMMISSIONED

H. E. Lobdell '17, General Manager of The Tech, Volume XXXVI, now at Plattsburg, has received his commission as second lieutenant in the infantry. W. J. Littlefield '17, Sports Editor of the same volume, received a second lieutenantcy in the ordnance.

### "DON'T GIVE UP EDUCATION TO FIGHT," SAYS ARMY SURGEON

World's Salvation Will Rest on Men of  
Science

To the American boy of 18 or under Maj. John M. T. Finney, U. S. M. R., noted American surgeon, now serving on French battlefields with the Johns-Hopkins medical unit, gives, in a letter to his son George, the following advice concerning army service and his reasons for that stand:

If such boys can continue at school or college they should not give up their educational opportunities for the adventure, glory and lure of a soldier's life.

This is a war of science, and the country needs educated brains.

You will be nowhere without an education after the war ends.

Leave the fighting to mature men; enlistment patriotism by those too young may lead to a generation of uneducated men.

The lesson taught by the civil war should be remembered; boys of 16 to

18 who rush to the front seldom resume studies.

The salvation of the world after this war will rest with men of education and scientific training.

## PLATTSBURG CLOSING

Men Ready to Make Way For  
Second Camp Quota

PLATTSBURG, Aug. 9.—The breaking up of the training camp for the first three months' tour of duty began today. Several of the companies, all the quartermaster's department could handle, marched to the storehouse and turned in extra shoes, extra olive drab shirts and leggings. This will be continued tomorrow, and on Saturday rifles, revolvers, belts and any other extra articles will be handed over. Some of the men are buying their extras, figuring that the articles will never be as cheap again during the duration of the war, particularly shoes.

Those not engaged in the quartermaster's work were busy at conferences and some at signal corps work.

The method of notifying the 3200 candidates on the list for commissions is progressing slowly. Not more than two companies have received word that they are commissioned. The notification is given the men individually by telegram addressed to their commanding officer and the man in question is then informed by his company commander and is instructed to tell no civilian of his commission. The work is most unsatisfactory, say officers who have seen the list, telegrams having names misspelled and no addresses being given to assist in identification.

The candidates now believe that the command will first learn of the results of the three months' training from the newspapers. There is much secrecy, not only regarding the commissions, but also of the names of the men who are recommended for a second tour of duty of three months. Why so much mystery over what the men themselves claim should be entirely open, as was the draft, is more than Army officers can understand.

Fifteen candidates were today designated to the aviation ground school at the Institute and will leave here on Saturday. Eight of the number are from the New England regiment and are as follows: W. Leckie, Brookline, 1st Troop; E. R. Cowles, Hanover, N. H., and J. L. Hubbard, Providence, 5th Company; B. D. Shuttleworth, West Springfield, S. Carlisle, Exeter, N. H.; R. P. Bradford, Brunswick, Me., 11th Company; C. E. Jones, Pittsfield, and W. W. Pinney, Dongan Hills, S. I. The detail is under the command of candidate W. S. Gordon, Jr., 1st Troop, New York Regiment.

## LABOR DEPARTMENT STARTS NEW PUBLIC SERVICE RESERVE

I. W. Litchfield '98 Serving on Board to Enroll  
Civilians Expert in Industrial Lines  
For War Service

### USE ALUMNI CATALOGUE TO GET ENGINEERS

TO supply the many technical positions in which the Government needs men to carry on successfully the present European War, the Department of Commerce and Labor has organized a bureau to catalogue civilians fitted, by profession or trade, to fill these jobs. This bureau, known as the United States Public Service Reserve, has already taken over the results of the Alumni Committee on Mobilization's efforts in the same direction, and intends to absorb all local service societies and centralize them at Washington. Here is what the Reserve's bulletin says:

"The United States Public Service Reserve is an official national organization of adult males who desire to find their place for effective service to the country in the war emergency and to make it easy for the Government to locate them when it needs help from men of their capacities. It has been organized and is conducted by the United States Department of Labor, which is the Federal Department to which such matters belong and to which all branches of the Government look for assistance in finding men. Enrollment in its ranks does not excuse anyone from the obligation to bear arms when his day for such service arrives. Its purpose is to enable those who are not called into the army or navy to play their part in realizing the ideal of a whole nation organized to war for the safety of our country and the preservation of the civilization and the future peace of the world. It is a common meeting ground where men of all degrees of capacity and attainment may unite in devoting themselves to the service of our country and mankind.

### Must Develop Man-Power

"The hour is near at hand when every man in America must devote his whole energy to the service of the nation. Every ounce of our power, human as well as material, must be made effective in the conflict. For some this means the army or navy; for some it means working patiently and steadfastly at their present jobs; for countless others it will mean that they will have to lay aside their present tasks and do some other work in which they can be more useful in the emergency. The man who is not ready to put himself and his energies wholly at the command of the nation, in such capacity as he may be best fitted to serve, will fail to carry his share of the nation's burden.

### The Nation's Need For Men

"The response of Americans to the country's call has been magnificent. More men have volunteered their services than can as yet be placed. But the business of the Government is growing at a tremendous pace as we take our part in the war. The need for men in positions under private employ, but actually serving the public at tasks vitally connected with the war, will soon get ahead of the supply. It is essential to prepare to meet this demand in a way that will cause the least possible disturbance to existing industries. Experience in other countries shows that ordinary methods of procuring labor, in all classes from unskilled to the most highly trained professional men, will soon prove inadequate.

### Steps Which Must Be Taken

"First. Men who already, through one channel or another, have offered their services for the common good, whether in a voluntary or wage earning capacity, must be so listed as to be most easily found by all departments of the Government. The various pro-

(Continued on page 3)

## STANDARDIZE AERO PARTS

New Board Decides on Uniform  
Steel For Airplanes

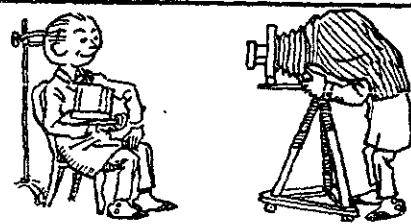
The first meeting of the International Aircraft Committee, which will standardize specifications for metals used in making air plane parts as well as the planes themselves, was held yesterday at 25 Pine street. A definite decision was reached as to the kind of steel to be used in making the parts, but details as to its composition were withheld. Final agreement as to uniform specifications of the parts was not reached, but progress was made in this direction, and weekly meetings will be held hereafter until the purposes of the committee are accomplished. F. G. Diffin, Chairman of the committee, said after the meeting:

"We have arrived at definite decisions which will greatly hasten the construction of the thousands of airplanes needed to strike Germany through the air. As airplanes are at present international in character and the United States is, to a great extent, to be the source of supply of metals for aircraft, there is need of immediate standardization of all metals, parts, and functions thereof in order that production may be uninterrupted.

The recent consolidation of aircraft manufacturers, headed by the Wright and Curtiss interests, under the title of the Manufacturers' Aircraft Corporation, was vigorously attacked yesterday by Leon Cammen, Vice President of the Aeronautical Society of America, who said the new combination is designed to freeze out future inventors, and that instead of enabling the industry to expand it will throttle aircraft production in America.

"The agreement between present aircraft manufacturers," he said, "pro-

(Continued on Page 2)



A FULL PAGE

## CAMP CUNNINGHAM PICTURES

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of The Tech

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The Editor-in-Chief is always responsible for the opinions expressed in the editorial columns, and the Managing Editor for the matter which appears in the news columns.

FRIDAY, AUGUST 10, 1917.

## THE TECHNICAL STUDENT

THERE has been a steady growth of opposition among men who have studied the situation, to the drafting of technically trained men into the ranks of infantry fighters. Many arguments have been advanced to favor the exemption of such men, and appeals have come from influential services not only for the conservation of the present supply of young engineers but for augmentation of the number of engineering students in our technological schools.

It is quite evident that there will be an enormous increase in engineering activities after the war, while during the conduct of the war it is going to be exceedingly difficult to find a great enough supply of young technical graduates to fill the demand from manufacturers of war munitions, ships, automobiles, airplanes and other paraphernalia. Instead, however, of the supply being increased, it is at present decreasing at an alarming rate due to entrance of so many students into war activities. Some measure must be taken to turn the tide in the other direction.

It may be argued that there are enough men beyond the draft age to carry on all the engineering to be done, but a moment's consideration will show that it is men between twenty-one and thirty who do the most active work. Older men with experience have a capacity for management but they need a large supply of younger assistants to enable them to work in the most efficient way.

It will be well for the exemption boards to look thoroughly into the possibility of utilizing these young men in their proper sphere. We hope that they will act in the best way for the nation's interests.

## STANDARDIZE AERO PARTS

(Continued from page 1)

vides for cross-licensing of patents between the companies now entering the combination, with priority given to the Wright and Curtiss interest in the payment of the royalties which the various patentees are to receive from the common fund into which the manufacturing companies pay them. Any future manufacturer or inventor may come into the combination upon condition that he submit his patents to a board of arbitration to be appointed by the corporation, which will adjudge what he is to get for it.

"The airplane of the present day is a very imperfect machine, and at any time a few inventions might be made which would result in a vast improvement. This combination destroys the incentive for such inventions, for it makes the inventor dependent on the decision of a few men whose economic interest is to throw his invention away. If these gentlemen were actuated purely by patriotic motives they could have assigned all their patents to the Government for the period of the war, letting the Government pay them the royalties which are provided for in the agreement which formed the new combination. As a matter of fact, there has been an appropriation of \$640,000,000 for army airplanes, the navy will spend three or four hundred millions, and these interests want to get it."

## The Real Test

"That man is so honest he wouldn't steal a pin," said the admiring friend. "I never thought much of the pin test," answered Miss Cayenne. "Try him with an umbrella!"—Philadelphia Inquirer.

## NAVAL RESERVE NEEDS COOKS

Appeals for 1,000, with 300 Bakers and 200 Butchers

All branches of the service concentrated their efforts yesterday on recruiting cooks, butchers and bakers for the period of the war. The Naval Reserve Force alone issued an appeal for 1,000 cooks, 300 bakers and 200 butchers. Citizens and aliens of friendly nations between the ages of 18 and 58 are acceptable in this department of service, and need have no fear that they will fail to pass the physical examination providing they can prove their ability to satisfy "Sammy's" palate.

## MISS DU PONT TO WED

Engagement to John Willcox Donaldson Announced

WILMINGTON, Del., Aug. 7.—General T. Coleman du Pont and Mrs. du Pont announce the engagement of their daughter, Miss Renee De Pelleport du Pont, to John Willcox Donaldson of Baltimore and New York, the younger son of Mrs. Nannie Beirne Donaldson and the late Dr. Frank Donaldson, Jr., of Baltimore, Md.

General du Pont was formerly President of E. du Pont de Nemours & Co., powder manufacturers, and in 1915 bought the controlling interest of J. P. Morgan in the Equitable Life Assurance Society. Recently he offered his holdings to the policyholders in order to mutualize the company. Last year he gave a million dollars to the Institute.

Miss du Pont is one of five children. Her sisters were the Misses Ellen Coleman du Pont and Alice Hounsfield du Pont, and her brothers are Francis, Victor, and Eleuthere Irene du Pont.



## YALE BUILDING NEW DORMS

Work of Constructing \$3,000,000 Harkness Group to Be Begun at Once

NEW HAVEN, Conn., Aug. 9.—Yale has decided to begin immediately the erection of the new Harkness dormitories and has secured building permits which estimate the cost of the structures as about \$3,000,000. James Gamble Rogers, architect of the new buildings, has awarded the construction contract to Marc Eidlitz & Sons of New York City. The Harkness group will consist of seventeen distinct buildings and will form a new campus, bounded by Elm, York, High and Library streets. The buildings will provide dormitory facilities for every member of the academic department.

Yale's new school of music is being rapidly completed and will be ready for occupancy when the fall term of the university opens next month. The new building is known as the Arnold Sprague Memorial Hall. It is situated on the site of the former home of the late President Timothy Dwight. It is divided into three units, one for theoretical, one for practical instruction and one for practice of music. A large auditorium has been constructed on the second floor, holding 730 people, with room for an orchestra of seventy pieces. The building was given by his wife in memory of the late Albert Arnold Sprague, a member of the class of '59. It was not begun, however, till after her death, when her daughter, Mrs. Frederick S. Coolidge, directed the plans and generously added to the contribution enough money to allow for the carrying out of the original elaborate plans. The building has a frontage of 132 feet on Wall and 62 feet on College streets. It is of brick colonial architecture, with warm gray limestone trimmings. Special attention has been paid to the need for deadening the walls in order that the three departments of music may be developed without mutual interference because of sound. The architects are Coolidge & Shattuck of Boston.

## KILLS HIMSELF LEST HE SEE U. S. BEAT GERMANY

Student at Cornell Jumps from Window of His Room

ITHACA, N. Y.—Gerald B. Smith, aged 20, of Bear Creek, Pa., a student in the Cornell University summer school, committed suicide today by jumping from the window of his room to the ground, three stories below.

He left a note for his mother, Mrs. A. K. Schwegel, giving as reason for his act that he did not want to live to see Germany beaten by the country in which he was living. He possessed a large library of books on the war.

## PROFESSOR PEARSON ARRIVES IN ST. LOU

(Continued from page 1)

from Cincinnati on his tour to awaken the branches of the Technology Clubs Associated to what the Institute is doing throughout the country. Professor Pearson's arrival here was slightly unexpected as his route was changed at the last moment. Nevertheless he had a large attendance at tonight's lecture.

ST. LOUIS, Mo., August 10.—Professor Pearson, on his country-wide trip to the Technology Alumni Clubs, arrived at the Planter's Hotel here this morning. Professor Pearson will address the local branch of the Technology Clubs Associated this evening.

Aug. 8, Wednesday—Indianapolis, Ind., Severin.

Aug. 10, Friday—St. Louis, Mo., Planter's.

Aug. 13, Monday—Chicago, Ill., LaSalle.

Aug. 15, Wednesday—Detroit, Mich., Statler.

Aug. 17, Friday—Cleveland, O., Statler.

Aug. 18, Saturday—Akron, O., Portage.

Aug. 20, Monday—Pittsburg, Pa., Wm. Penn.

Aug. 21, Tuesday—Buffalo, N. Y., Statler.

Aug. 23, Thursday—Rochester, N. Y., Seneca.

Aug. 24, Friday—Schenectady, N. Y., Mohawk.

Aug. 27, Monday—Washington, D. C., 908 Union Trust Bldg.

Aug. 28, Tuesday—Philadelphia, Pa., Bellevue Stratford.

Aug. 29, Wednesday—New York, Technology Club.

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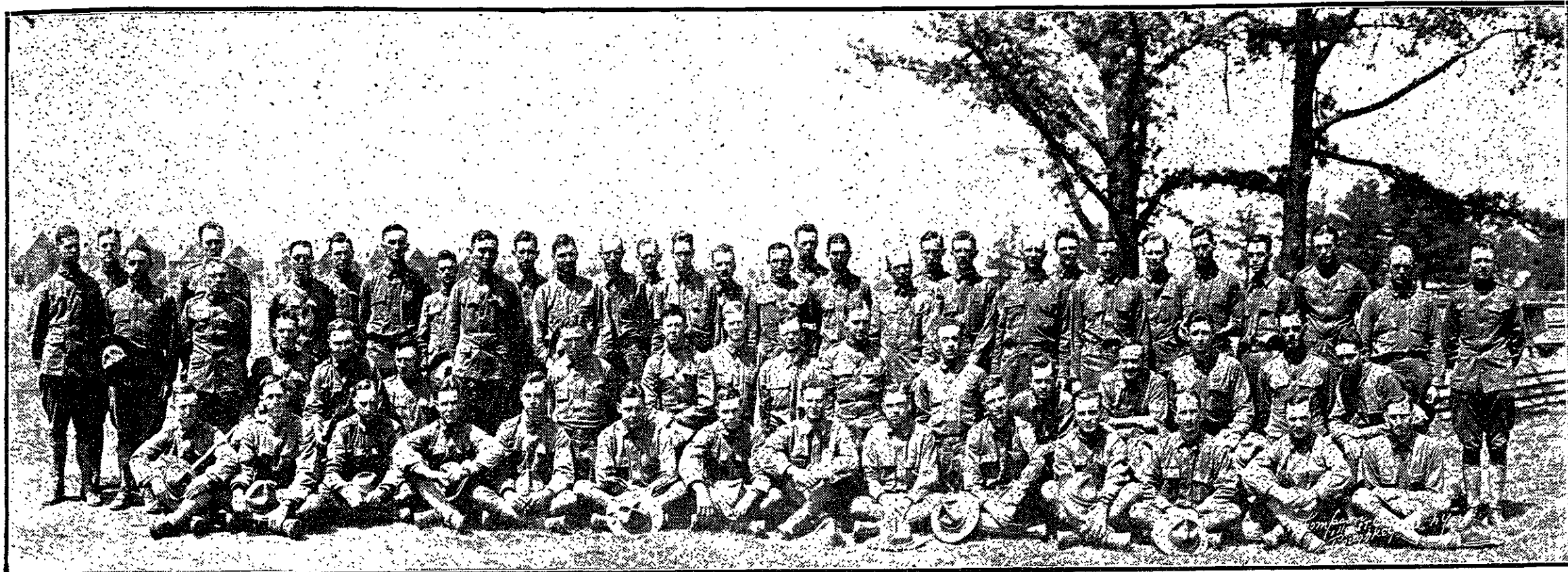
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# Photograph Of The Institute Men at Plattsburg Finally Gets Through



Standing (from left to right) (1) J. H. Harper '17, (3) C. H. Sutherland '10, (3) S. K. Cohen '10, (4) E. H. Gage '13, (5) D. W. Gibbs '10, (8) R. E. Heffer '15, (9) E. D. Bascom '15, (12) H. W. Brown '15, (14) Thorn Dickinson '14, (15) C. H. Wilkins '14, (16) G. M. Keith '12, (17) F. L. Ahearn '14, (19) A. W. Macomber '07, (20) L. E. Moore '02, (22) A. L. Shaw '09, (23) W. S. Rhodes '95, (24) Professor F. G. Perry '09, (25) W. A. Clark '05, (26) D. B. Baker '15, (27) T. W. Ryan, Jr. '17, (28) Clark Robinson '17, (29) E. F. Deacon '19, (30) E. A. Ware '09, (31) E. G. Senter '17.  
Kneeling (from left to right) (2) H. E. Lobdell '17, (4) J. A. Root '04, (6) R. H. Ranger '11, (8) P. E. Hinkley '05, (9) A. Breth '16, (11) F. H. Cunningham '92, (12) E. P. Brooks '17, (13) A. E. Page '19, (14) J. T. Leonard '18.  
Sitting (from left to right) (2) E. L. Homan '12, (4) S. C. Dunning '17, (6) J. G. Strowbridge '19, (7) J. W. Gibson '19, (8) C. W. Lawrence '16, (11) A. E. Moody '17, (12) M. J. Smith '14, (13) E. F. Kelly '07.

Those whose names do not appear, or appear incorrectly, will kindly send their position in this picture to The Tech, Charles River Road, Cambridge, Mass.

The above picture was made from a photo of the Technology men at Plattsburg before the "rookies" were forced to choose the arm of the service they wished to enter. Now only those who selected the infantry are on the banks of Lake Champlain, the coast artillery, engineers and signal corps being scattered in camps all over the country. The following article appeared in the July 3 issue of The Tech, but now that the above photograph has passed the censors, the original report of Technology's activity at the training camp is reprinted herewith.

PLATTSBURG BARRACKS, Plattsburg, N. Y.—June 9, 1817.—It was officially demonstrated here tonight that a Technology man remembers freshman drill for at least 25 years, at the first dinner of the Technology Club of Plattsburg Barracks, when a call for classes produced a "rookie" who graduated in '92.

The debut of this youngest of Technology Alumni Associations was signalized by many other striking particulars. Undergraduates and prospective "degree-hunters" and "also rans" were not shoved back, but occupied the front tables. It was for many the first "real coffee in china cups" in four weeks and in many ways proved how great an appetite a month of army mess can produce. Naturally all were in uniform and—unnaturally—all stood at attention until the command "Company Seats" was heard, in place of the mad scramble of the customary dinner in the old Union or the Caf.

H. E. Lobdell '17, as cheer-leader and "band-sergeant," managed to rise unassisted, stand on his chair, and lead a "regular M. I. T." with three "Plattsburgs" with a borrowed swagger stick. The enthusiasm showed the anxiety of 76 men standing before heaping plates of fried chicken and strawberry shortcake, and when they actually began consumption the noise completely suppressed the "battery" of Victrolas hired for the occasion.

Chairman Macomber in his introductory remarks referred to "this

unique dinner" and "motley assemblage" amidst applause and when he announced that the "usual speeches are to be cut out" he fully grasped the attention of all present. He called it "an informal gathering together of Tech men" and said—"If you don't know the next man's name slap him on the back and look at his tag." A voice in the corner whose possessor had evidently just been "shot" for one of the half dozen or so possible diseases, warned him to be "careful of the left arms."

Mr. Macomber then spoke of the alumni work on National Defense; of the questionnaire sent out some months ago and how this form had been adopted by the government as the most complete circular of its kind. As a result of this classification over 300 Institute

alumni have been called for service in their special line of training.

Brooks '17 covered the undergraduate side, producing laughter when he told how "the war struck Technology in the midst of the midyear vacation." He qualified this by saying that "it nearly knocked us out." He traced the work of the Preparedness Committee in which they consulted men like the head of the General Electric and the President of the Fore River Shipbuilding Co., etc.; of the Joint Committee, particularly emphasizing the spirit of co-operation shown; and of the summer camp proposition. As Brooks had not received his degree, it was thought improper to cheer for him and to allay the pent-up enthusiasm the gathering gave a "We are Happy" for "Charlie."

## START NEW PUBLIC SERVICE RESERVE (Continued from page 1)

Professional, collegiate and other organizations which have been registering members for national service must have the results of their work coordinated at a common center.

"Second. The spirit of individual consecration to the national good must be fostered and spread, so that those who have not yet realized their own personal responsibility and opportunity may be induced to join the common undertaking. Here is where an official national organization becomes necessary. The unrelated efforts of various societies and bureaus reach comparatively few, and these few are among those who are most eager to serve and least need incentive. Only by uniting the members of such organizations with others in one common and vigorous patriotic movement can all the nation's human resources be developed. Patriotism in an individual can not be selfish or exclusive; to be most serviceable the patriot must be ready to join in the organized common demonstration of loyalty through which not only can he hope to find his own place for service, but can help stimulate others to a like devotion.

**Should Prepare Immediately**

"The United States Public Service Reserve is beginning to enroll members at a time when more men are begging opportunities to serve than can immediately be used. It aims to be forehanded—to prepare in advance for the great scarcity of men which is surely coming before we shall have made ourselves really count in this war. By developing its membership in advance and making a careful analysis and record of the capacities of its members it will be able to fit thousands of individuals into their proper places in the great war machine which we must in order to hasten the day of peace for the world.

**Why You Should Join the Reserve**

"Confusion and inefficiency are the inevitable results of an unorganized scramble for opportunities of service. For most men, possibly for you, the duty of the hour is to do their present job better than ever before. The national organism must continue to live. Too great alacrity on the part of individuals to desert their peace-time posts can only result in crippling the nation. By enabling you to record your readiness to serve in the official register where you will know that you will be found when you are needed, the United States Public Service Reserve makes it possible for you contentedly to go about your present business till your day to enlist elsewhere arrives. By obtaining the certificate of enrollment you will receive official acknowledgment that you are fully meeting your present duty. By wearing its button you not only will show that you are ready to step forward when the call comes, but you will also multiply your usefulness to the nation by setting an example to others. The country not only needs your offer of service, it needs your influence in bringing home to every citizen his duty to be ready to meet the nation's call.

**What It Means to Be a Member**

"The obligations of membership are sufficiently indicated by the form of application. Nothing is implied except a sincere purpose to respond to the call for public service when it comes, and to go about your business in the meantime. Receipt of notification of an opportunity imposes no obligation to accept that particular call. The sanction of the Public Service Reserve will stamp the job as one in which the nation needs a man. If you accept such opening you will know that you are serving our country in its peril as truly as the man who wears a uniform and goes to the front. Knowing this, you, yourself, can be trusted to judge as to whether the particular opening is the one in which you best can serve.

**Members Must "Mean Business"**

"No one should apply for membership who does not honestly intend to 'do his bit' as soon as the right opportunity comes to him. By receiving a certificate of enrollment in the U. S. Public Service Reserve and wearing its emblem you will signify your readiness to serve the nation in the war emergency, even at the cost of personal sacrifice. The Reserve is open to those who can devote only part of their time to public service or whose circumstances impose limitations on the place where they can serve or require that they be

compensated for their labor. Many whom it enrolls may find that the best place for them to serve the nation is at their present posts where their work is necessary to the integrity of the country's industrial system. Members already usefully employed should not take other employment without due consideration of their employer's interests. While each member will retain entire freedom of judgment as to his availability for any particular form of service of which he may be notified, he will remain in honor bound not to let any selfish consideration stand between him and his country's need.

In France, in England, in the lands of others of our allies, there scarcely can be found today a man who is not devoting his all to the cause of his country. The wonderful resistance of our common foe is due in large measure to the complete consecration of the individual to the service of the state. If Germany is to be conquered it can not be solely through superior resources in material and in numbers of men. To win an enduring triumph, democracy must show its capacity to light the world with a hotter and whiter flame of patriotic devotion than autocracy can inspire.

"Department of Labor,  
"Washington, D. C."

**NAVY TO BUILD PLANT TO MAKE AIRPLANES**

WASHINGTON, Aug. 8.—Secretary Daniels yesterday announced the decision of the Government to build an aircraft factory for the navy. The plant, which will be at the League Island Navy Yard, Philadelphia, will cost \$1,000,000 for buildings and machinery. When worked at full capacity it will employ 2,000 men.

Secretary Daniels recently recommended to Congress the appropriation of \$45,000,000 for naval aeronautics in addition to amounts previously made available. This money will be used in maintaining and expanding existing schools and stations, establishing new stations and training schools, and in the purchase and manufacture of necessary aircraft—seaplanes, dirigibles, and kite balloons for use on high seas and from coastal stations at home and in co-operation with our allies.

The additional personnel for the operation of the naval aircraft is being enrolled in the Naval Reserve Flying Corps. The navy is planning the establishment of an air force of sufficient size to operate as scouts from naval vessels, to patrol the waters off the coasts of the United States, and to co-operate with naval forces abroad in anti-submarine warfare.

In making his announcement tonight Secretary Daniels said:

"In view of the enormous expansion of the airplane industry now being undertaken in the United States, it was felt that it was necessary to increase the Navy Department's facilities along these lines, not only to enable it to supply a part, at least, of its own needs, but in order that the private plants might be relieved of the experimental developments which they have hitherto undertaken, and turn their whole attention to the maximum production of approved types.

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## U. S. NEEDS TECHNICAL MEN FOR SERVICE DURING WAR

For further information concerning these positions, communicate with the nearest Secretary of the Civil Service Commission or the M. I. T. Committee for National Service, 908 Union Trust Bldg., Washington, D. C.

## WASHINGTON

AUGUST 6, 1917

Position	Service	Salary	Date of Exam	Cir. No.
Laboratory Aid,				
Motion Picture Lab.	Dept. Agriculture	\$720	August 8	1598
Tent Inspector	Quartermaster	\$1,200		1599
Ordnance Foreman	Puget Sound Navy Yard	\$5.52 per day		1600
Shop Apprentice	Dept. Commerce	\$540	August 22	1597
Asst. Insp. Cloth Equipment	Ordnance	\$960-\$1,500		1370
Asst. Insp. Leather	Ordnance	\$1,200-\$1,500		
Asst. Insp. Small Hardware	Ordnance	\$960-\$1,500		1370
Asst. Insp. Textiles	Ordnance	\$960-\$1,500		1370
Asst. Insp. Leather Equipment	Ordnance	\$1,200-\$1,500		1370
Asst. Metallurgical Chemist	Ordnance	\$1,000-\$1,500		1617
Production Expert	Signal	\$1,500	August 21	1682
Scientific Asst. Drug-				
Plant Inves.	Dept. Agriculture	\$1,200	August 22	1621
Entomological Insp.	Dept. Agriculture	\$1,400-\$1,740	August 22	1620
Finger Print Classifier	War Dept.	00		1683
Radio Engineer	Signal Ser.	\$1,800	Sept. 4	1797
Heating and Vent. Engineer				
and Draftsman	Treas. Dept.	\$1,500	Sept. 4	1766
Electrical Eng.	Treas. Dept.	\$1,500-\$1,600	Sept. 4	1766
Mechanical Eng.	Treas. Dept.	\$1,600-\$1,800	Sept. 4	1766
Investigator in Marketing	Dept. Agriculture	\$2,400-\$3,000	Sept. 4	1765
Junior Civil Engineer	Interstate Commerce			
	Commission	\$1,200-\$1,680	Sept. 5	1764
Junior Architect	Interstate Commerce			
	Commission	\$1,200-\$1,680	Sept. 5	1763
Asst. El. Eng. Qualified in				
Municipal Research	Dept. Commerce	\$1,400-\$1,800	Sept. 5	1707
Laboratory Helper	Bureau of Mines	\$1,080	Sept. 5	1705
Asst. Microscopist	Bureau of Mines	\$1,800-\$2,000	August 28	1704
Chief Draftsman	Dept. Agriculture	\$2,500	Sept. 4	1767
Pressman on Offset Presses	Ordnance	\$1,200-\$1,400	August 28	1741
Qualified Chauffeur	Engraving and Printing	\$792-\$1,000	August 28	1703
Aid	Post Office	\$1,200	August 22	1670
Investigator Accounting,				
office management	Bureau of Efficiency	\$2,000-\$3,000	August 21	1669
Inspector Field Artillery				
Ammunition Steel	Various	\$1,500-\$1,800		1601
Asst. Insp. Field				
Ammunition Steel	Various	\$3.50-\$5.00 p. d.		1601
Mechanical Lab. Asst.	Bureau Mines	\$960-\$1,080	August 22	1668
Aid	Bureau Standards	\$600-\$720	August 22	1665
Jr Gas Chemist	Bureau Standards	\$1,200-\$1,500	August 22	1666
Bookbinder	Printing Office	\$4.00 per day	August 22	1667

OFFICIAL FROM THE  
M. I. T. Committee for  
National Service

JAMES P. MUNROE, Chairman

WASHINGTON BUREAU  
908 Union Trust Building  
JOHN M. DeBELL '17 in Charge

A direct means of communication between the Technology and the National Government. If there is anything you wish to know in Washington, write to the Technology Bureau.

Among the callers at the Washington office during the past week have been

Paul Swartz '06.  
S. C. Bates '11.  
P. C. Baker '16.  
F. A. Smythe '89.  
G. F. Loughlin '03 of the U. S. Geological Survey.  
W. C. Brown '16.  
B. D. Gordon '16.  
A. L. Stein '10.  
C. E. Trull '1.  
H. M. Baxter '17.  
R. W. VanKirk '18.  
E. C. Shrutteff '14, reported to the Navy on June 6, and is now attached to the flagship of his battleship division as radio gunner.

W. C. Brown '16 has received his appointment as Assistant Paymaster in the Navy as a result of an examination in June. Several thousand men took these examinations, and Brown was well up among the seventy odd candidates who were successful. He will receive a commission as ranking Ensign.

C. H. Young '96, representing the Armstrong Cork Co. of Pittsburg, who spends considerable of his time in Washington, has recently been lending his assistance in the design of refrigerating plants on boats of the emergency fleet and cantonnments. He also is interested in insulations for naval vessels. The local secretary welcomes his application for membership in the Washington Alumni Association.

W. C. Dean '00, of the Bureau of Construction and Repair, Navy Dept., and Secretary pro tem of the Washington Association called with news items and memorandum cards which have been distributed among the Washington alumni. These cards request

(1) Reports to the Local Secretary.  
(2) Reports of news for The Tech.  
(3) Prompt subscription to The Tech.  
(4) Identification with the local society, and further asks for volunteers in each department or bureau of the Government, to assist the Secretary.

## The Draft

General Crowder is issuing a series of statements to govern the action of exemption boards, both local and district, and has made the following points:

Regarding exemption on grounds of industrial necessity, the board must settle the following questions:

(1) Is the industry in question necessary to the maintenance of the Military Establishment or the effective operation of the military forces or the maintenance of the national interest during the emergency?

(2) Does the person by or in respect of whom the discharge is claimed occupy such a status in respect of such a necessary industry, that his place could not be filled by another without direct, substantial, material loss and detriment to the adequate and effective operation of the particular enterprise?

With regard to exemption of technical students, he says: "In order to claim a discharge under the original jurisdiction of a district board, the claimant must show that he is engaged in one of the industries, including agriculture, upon which that jurisdiction is based. Questions have been asked whether (a) firemen, (b) policemen, (c) students in technical schools and colleges can be considered as engaged in such industries. None of these classes can be so considered, and therefore there is no statutory authority for claiming or granting discharges in the case of firemen, policemen, or students in technical schools, under the provision of section 44 of the Regulations for Local and District Boards.

The University of Chicago is training its drafted men in the duties of noncommissioned officers.

## Present Sanitary Service

The Sanitary Service at present is confined to the newly authorized Sanitary Corps of the Army, which is purely military, and under the command of the Surgeon General. This Corps uses particularly men with the training given in the Institute School for Health Officers. Physical and mental examinations are in general required, and the candidate is reported as qualified or not for commission. Men wishing application blanks or individual information can secure them from the Surgeon General, Mills Building, Washington, D. C.

Jackson B. Wells '16 has been commissioned first lieutenant in the Officers Ordnance Reserve Corps.

Walter W. King '10 is an instructor in aviation at the government flying school at Dayton, Ohio.

William C. Arkell '10 has been commissioned first lieutenant in the Ordnance Officers Reserve Corps.

Major Bradley '09, O. O. R. C., has been ordered to New York to superintend the manufacture, purchase and in-

jection of gas masks.

Desaix B. Myers '08 has been commissioned captain in the E. O. R. C.

H. S. Kimball '91 has been commissioned in the O. O. R. C.

E. C. Gene '13 has been commissioned second lieutenant in the cavalry division of the O. O. R. C. and is on active duty with the first troops at Plattsburg Barracks.

Elmer E. Dawson '14 will take up work with the machine gun division of the ordnance division of the O. O. R. C. as lieutenant.

Captain Braxton Bigelow '10, of the 170th field company of the Royal Engineers, British Army, has been reported missing.

## COMPLETE GROUND TRAINING

151 More Graduates in Preliminary Aviation Course Announced

WASHINGTON, Aug. 5.—The War Department today announced that 151 more students were graduated from the preliminary course in army aviation at the ground schools at American universities and were ordered to Mineola and other flying schools for continuation of their training to be aviators in France. A list of the men graduated at Cornell University and the Institute follows:

## Institute

Alexander, A. H.  
Freeman, H. B.  
Hedley, M.  
McClellan, W. C.  
Marine, J. S.  
Petree, H.  
Phelan, Richard  
Rivers, J. C.  
Rogal, E.  
Rhorback, W. W.  
Townsend, E. M., Jr.  
Young, Cecil P.  
Carroll, T.  
Cronin, N. J.  
Davison, Ralph E.  
Dowell, J. N.  
Peck, A. E.  
Pitts, Albert B.  
Thompson, H. S., 3d  
Foster, F. V.  
Tyler, J. C.  
Turner, F. B.  
Marshall, H. F.  
Munn, E. O.  
Nolting, W. W.  
Perrault, L.  
Edwards, J. W.  
Guilbert, H. W.  
Hall, Roy W.  
Hofferman, C. D.  
Hermes, Theron B.  
Howe, D. W.  
Twitchell, R. S.

The other graduates were from the Universities of Ohio, Illinois, Texas, and California.

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Du Pont Chemical Works 120 Broadway, New York  
Pyroxylin and Gas Tar Chemicals  
E. I. du Pont de Nemours & Co., The Arlington Works,  
725 Broadway, New York  
Ivory Py-ra-lin, Auto Sheeting, Cleanable Collars  
Harrisons, Inc. Philadelphia, Pa.  
Paints, Pigments and Chemicals

## Cornell University

Bauer, E. H.  
Hoffman, Ross J.  
Hollinger, E. W.  
Kahle, C. C.  
Merz, Harold B.  
Moonan, J. P.  
Snell, F. D.  
Wilson, A. H.  
Youngdahl, Edgar  
West, Karl G.  
Bovard, J. M.  
Clark, W. A., Jr.  
Clark, W. A., Jr.  
Ellis, H. R.  
Hammond, W. C.  
Harvey, P. C.  
Johnson, J. M.  
Leonard, H. K.  
Mellen, J. M.  
Osborne, F. C.  
Powers, E. Banie  
Sands, O. B.  
Shelton, Will B.  
Temple, J. P.  
Quick, R. B.  
Lloyd, Frank T.  
Patterson, A. B.  
Richards, L. H.  
Shank, W. E.  
Loughran, L. B.

## HARVARD SCHOOL TO CLOSE

The final examinations for all students in the Harvard Summer School will begin this morning and continue through tomorrow. The last sessions in the summer course will take place Saturday afternoon. Final tests in the department of physical education, connected with the Summer School, will close this afternoon, and there will be no further classes held.

How About That Subscription?  
A Dollar and a Half will bring The Tech for six months.

## SPOTS APPEAR ON SUN

May Be Seen With Naked Eye Through Colored Glasses

WASHINGTON, Aug. 8.—Appearance of spots around the rim of the sun was announced today by the Naval Observatory.

They were observed first August 5, and are large enough to be visible to the naked eye through colored glasses



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